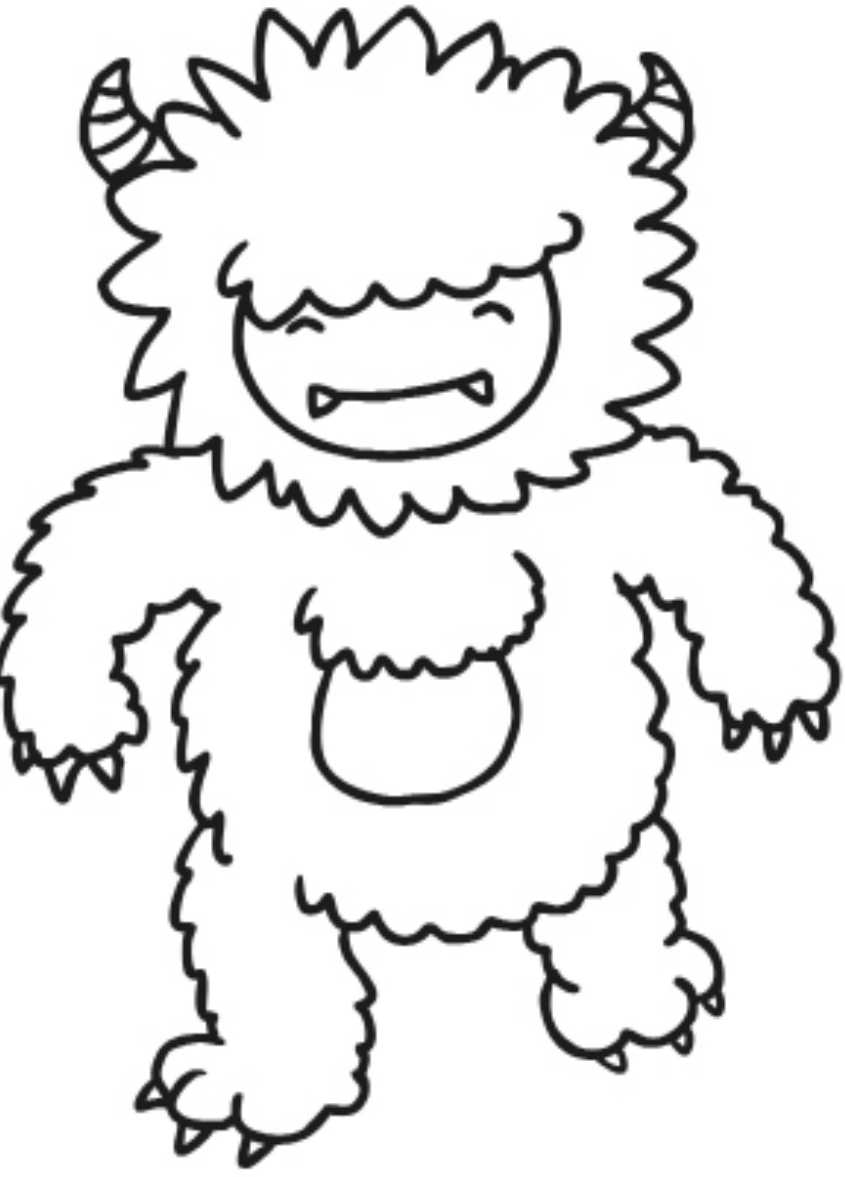
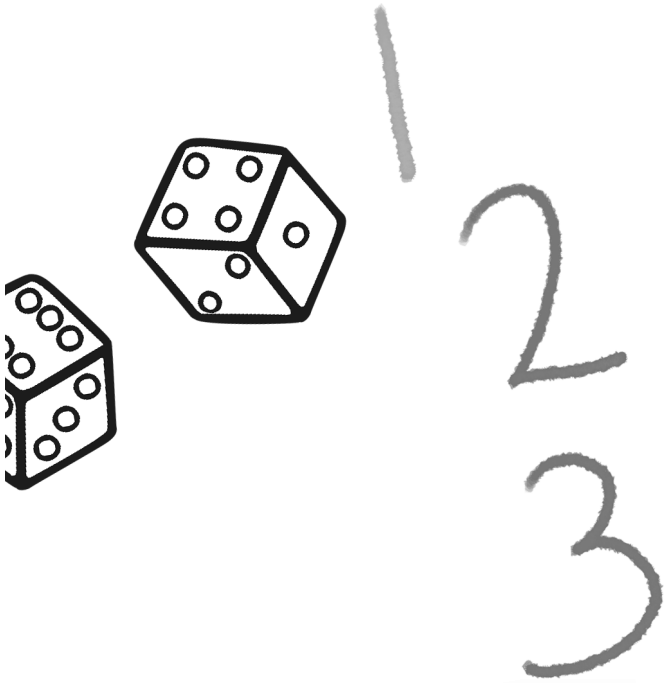
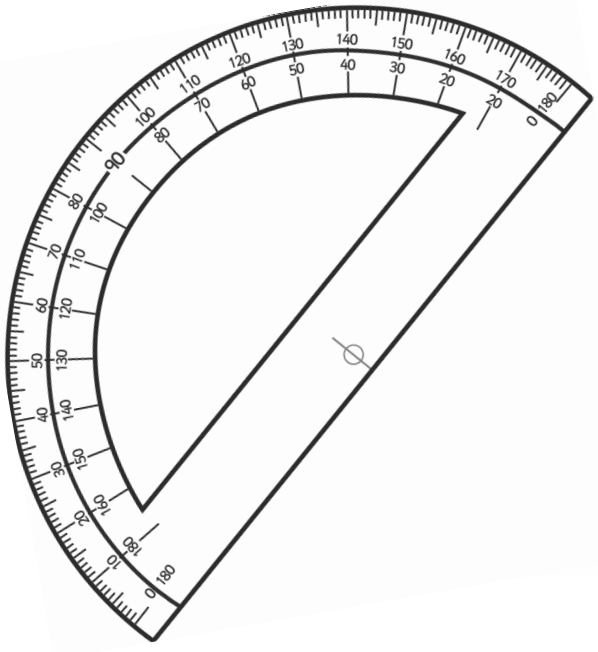
Year 3 Maths Number and Place Value Workbook







Counting in 4s, 8s, 50s and 100s

Complete the following sequences:

a) ___ 8 12 16 20 ___

b) 64 56 ___ 40 ___ 24

c) ____ 100 150 200 ____ 300

d) 900 ____ ____ 600 500 400

e) 56 ___ 64 68 ___ 76

f) ___ 64 56 ___ 40 32

g) 350 400 ____ 500 ____ 600

h) 1100 ____ ____ 800 700 600

i) ___ ___ 84 80 76 72

j) 80 88 ___ ___ 112 120

Continue the following sequences:

k) 4 8 12 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___

l) 8 16 24 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___

m) 50 100 150 ____ ____ ____ ____ ____ ____ ____ ____ ____ ____ ____ ____

n) 100 200 300 ____ ____ ____ ____ ____ ____ ____ ____ ____ ____ ____ ____

o) 80 84 88 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___

p) 1250 1200 1150 ____ ____ ____ ____ ____ ____ ____ ____ ____ ____ ____ ____

q) 144 136 128 ____ ____ ____ ____ ____ ____ ____ ____ ____ ____ ____ ____

r) 1500 1400 1300 ____ ____ ____ ____ ____ ____ ____ ____ ____ ____ ____ ____

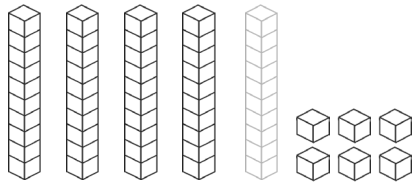
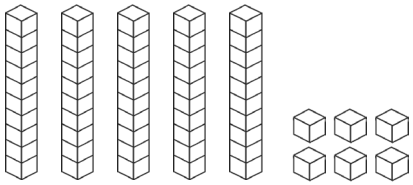
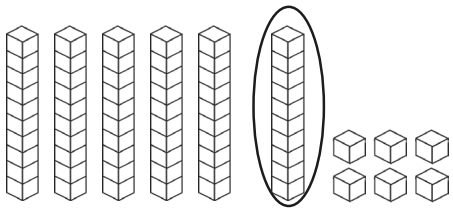
s) 124 120 116 ____ ____ ____ ____ ____ ____ ____ ____ ____ ____ ____ ____

Challenge

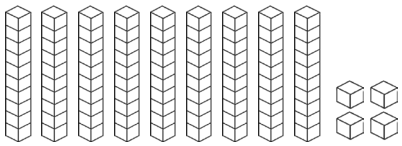
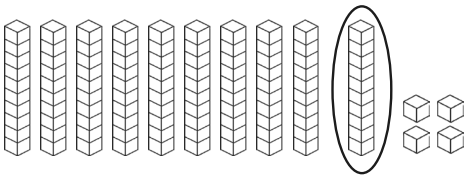
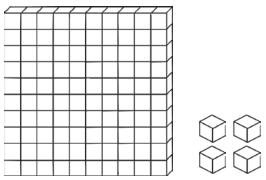
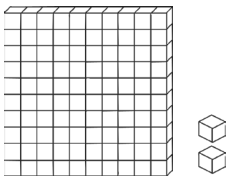
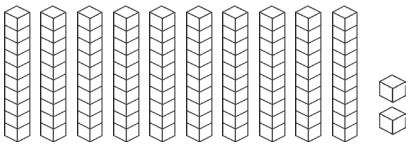
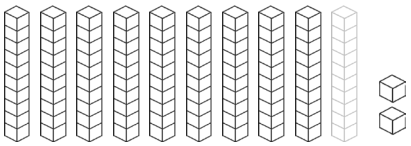
Explain the relationship between counting in 4s and 8s and compare this to the relationship between counting in 50s and 100s.

10 More and 10 Less Worksheet

Adding or subtracting 10 can be done by representing or imagining a number as hundreds, tens and units and simply adding or removing one of the tens e.g.

		
56 - 10 = 46	56	56 + 10 = 66

Sometimes you will make a new hundred or need to break a hundred down into tens to be able to do this. e.g.

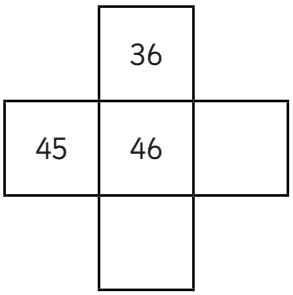
94 	94 + 10 	94 + 10 = 104  10 lots of 10 = 100 so a new 100 is made.
102 	102 - 10 We need to work with 10s so we break the hundred down into 10 lots of 10. 	102 - 10 = 92 Then we can take one away. 

1. Try these. Draw the hundreds, tens and units if you wish.

1. 43 – 10 =
2. 27 + 10 =
3. 59 – 10 =
4. 38 + 10 =
5. 97 + 10 =
6. 107 – 10 =
7. 153 + 10 =
8. 195 + 10 =

1. Can you fill in the missing numbers in these pieces snipped from number squares? Don't forget you can have number squares that are bigger than 0-100

1.



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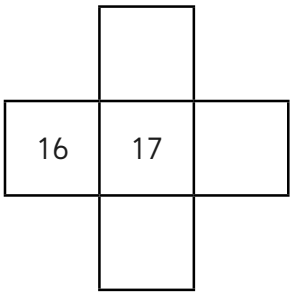

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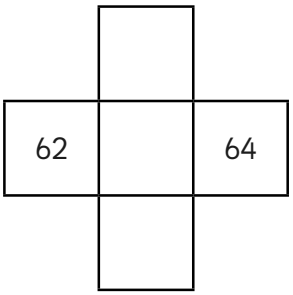

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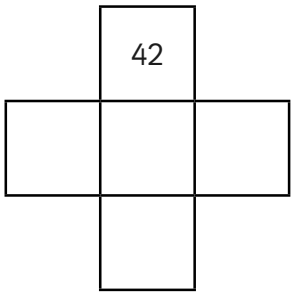

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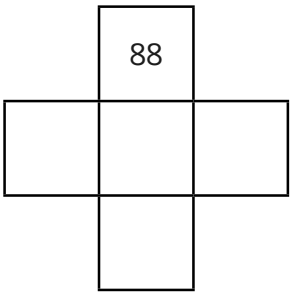

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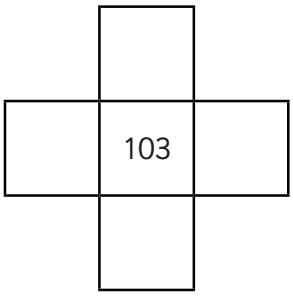

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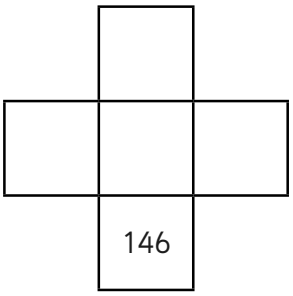

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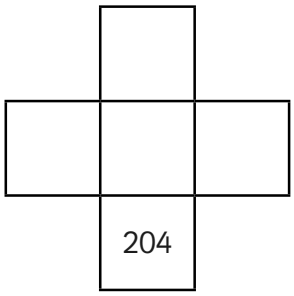


2. Look at the amounts these children have saved. How much would they have if they spent £10 or if they saved £10 more?

1.

- £10	£37	+ £10

2.

	£13	

3.

	£48	

4.

	£93	

5.

	£109	

6.

	£131	

7.

	£10	

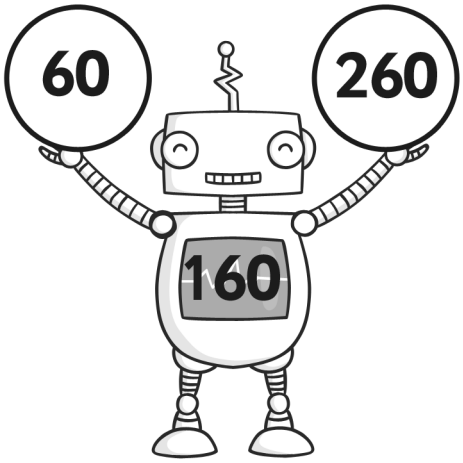
8.

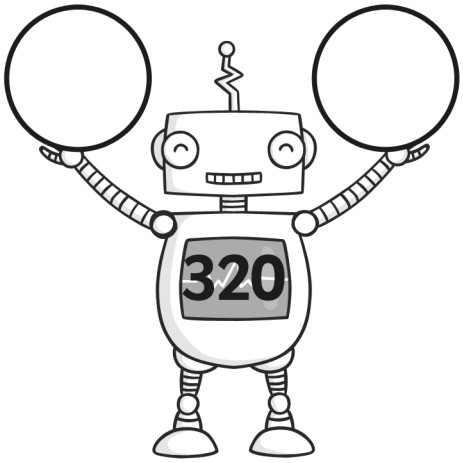
	£198	

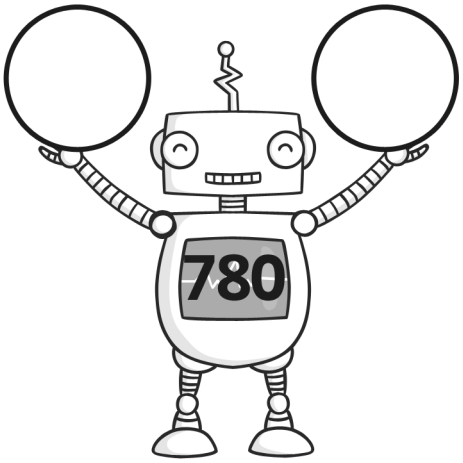
100 More 100 Less Worksheet 1

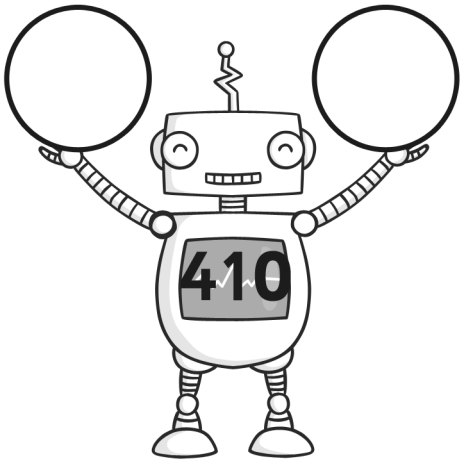
Can you find 100 more than and 100 less than the number in the robot's tummy?

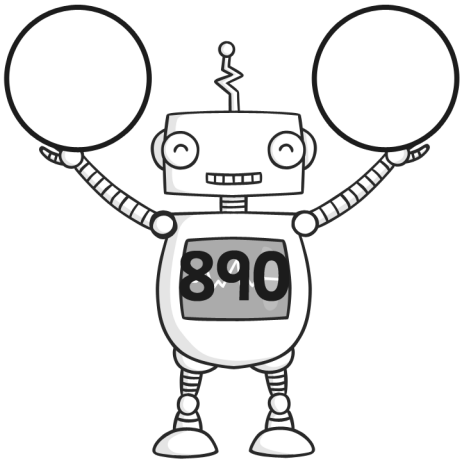
E.g.

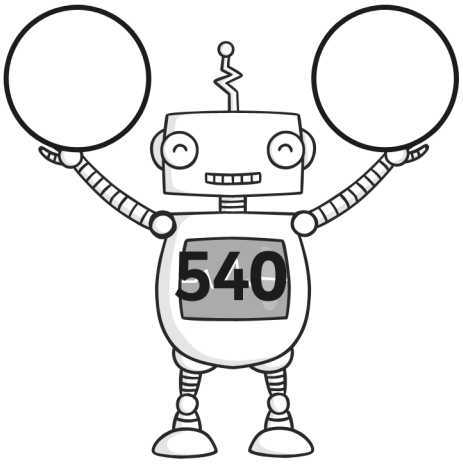


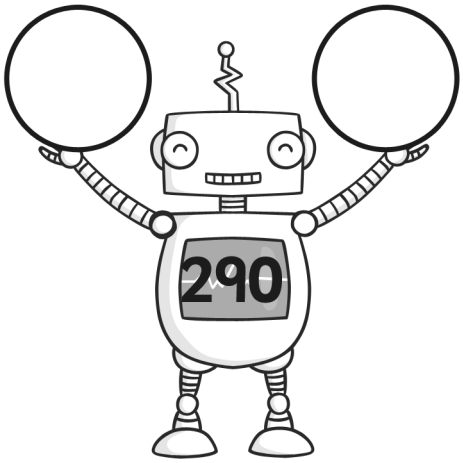


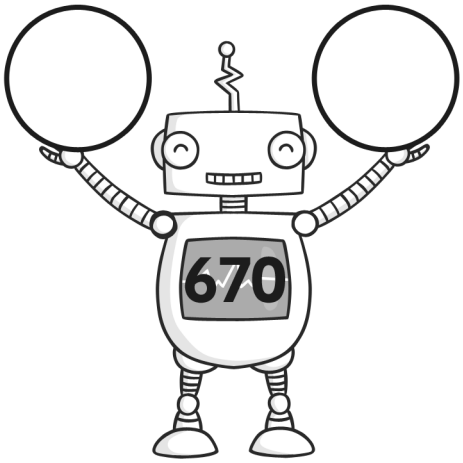


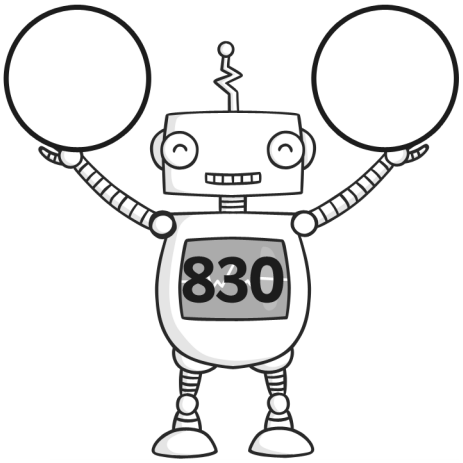








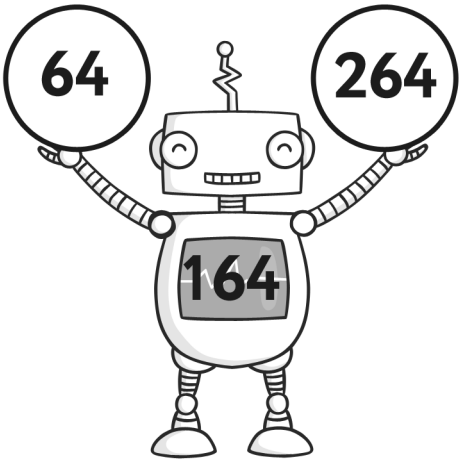


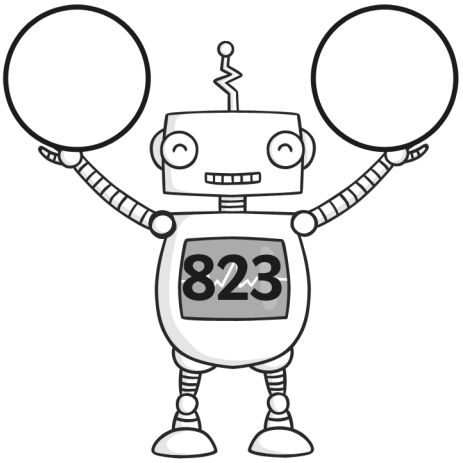


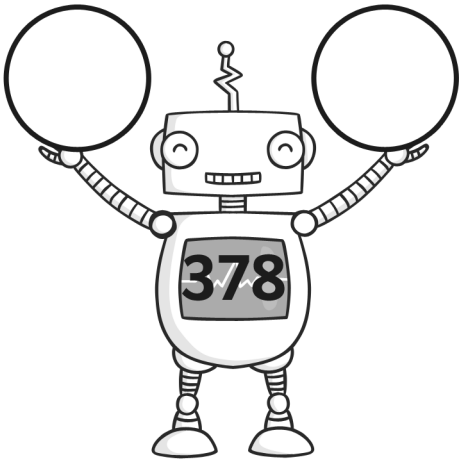
100 More 100 Less Worksheet 2

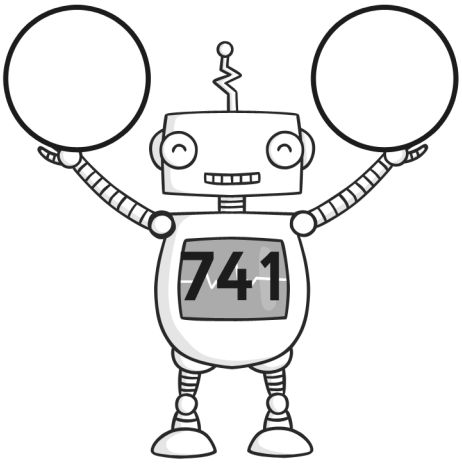
Can you find 100 more than and 100 less than the number in the robot's tummy?

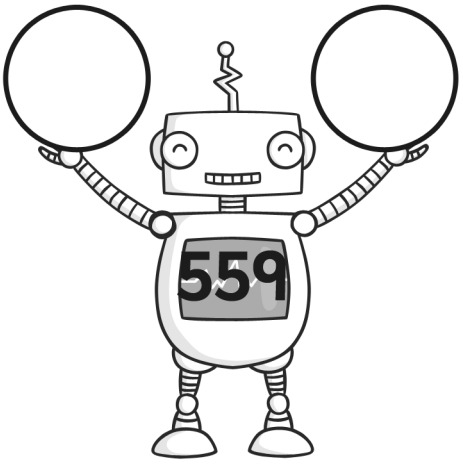
E.g.

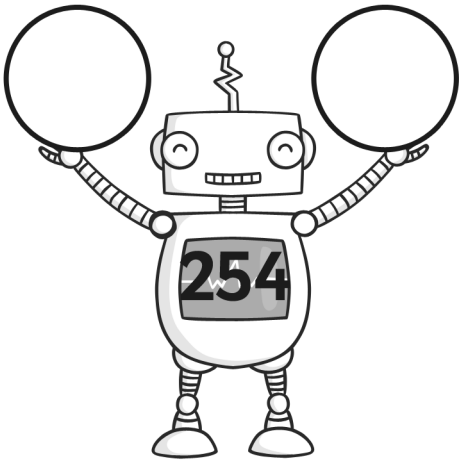


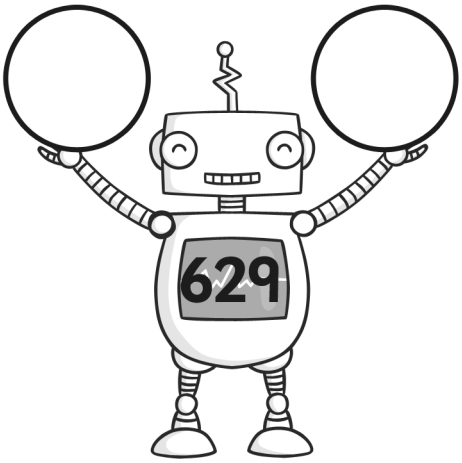


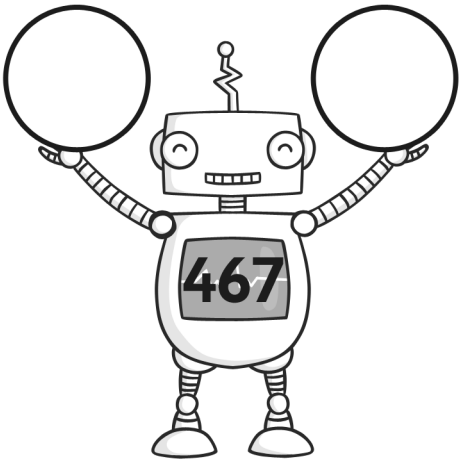


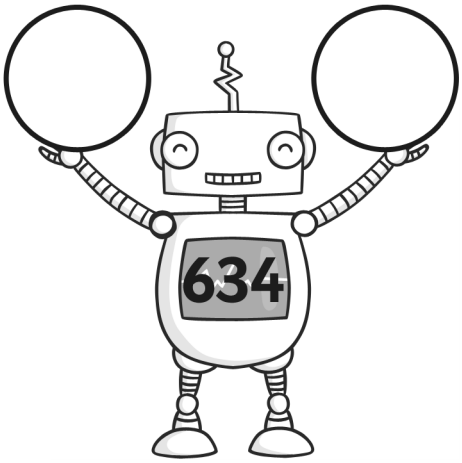








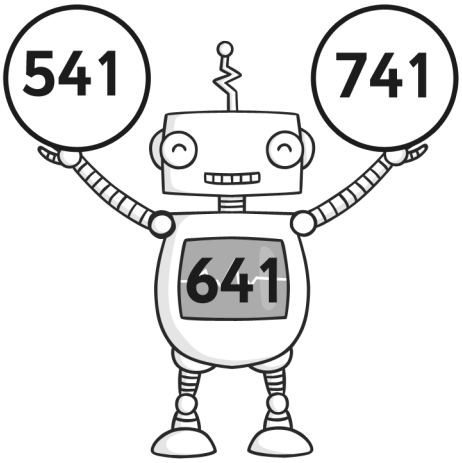


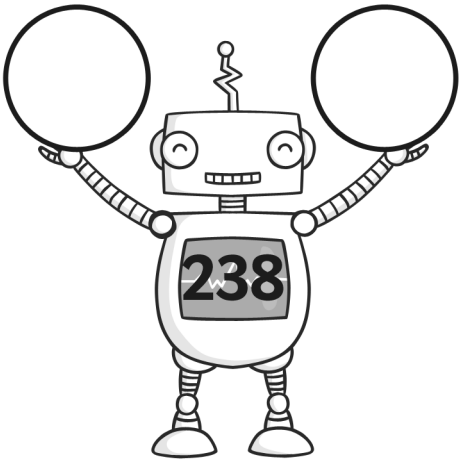


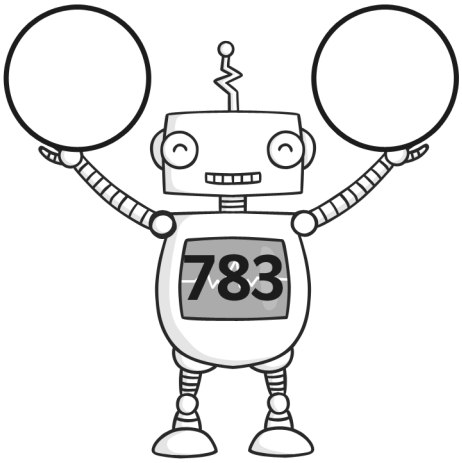
100 More 100 Less Worksheet 3

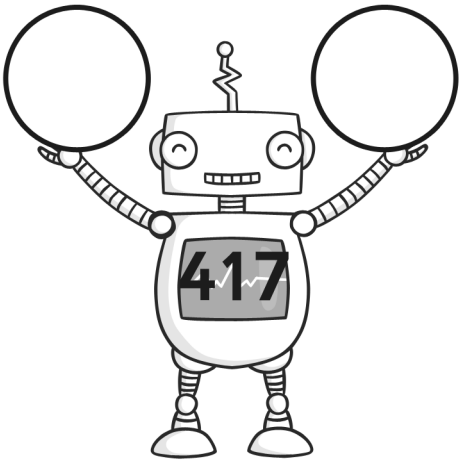
Can you find 100 more than and 100 less than the number in the robot's tummy?

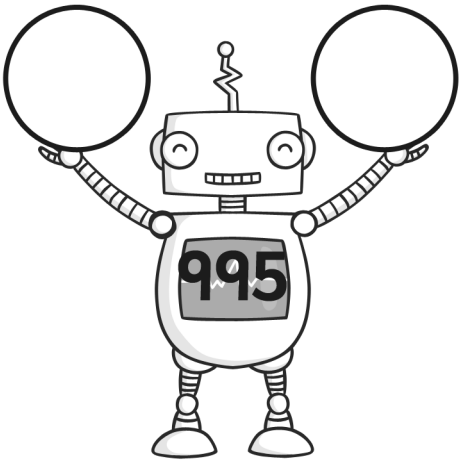
E.g.

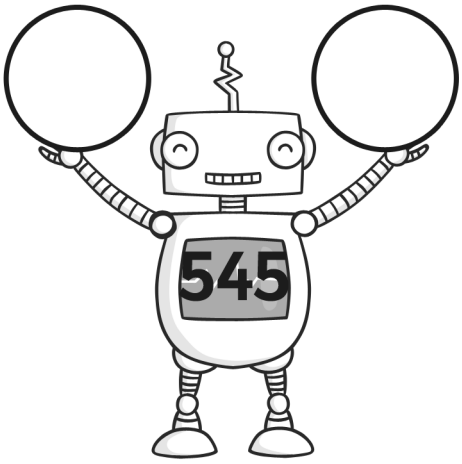


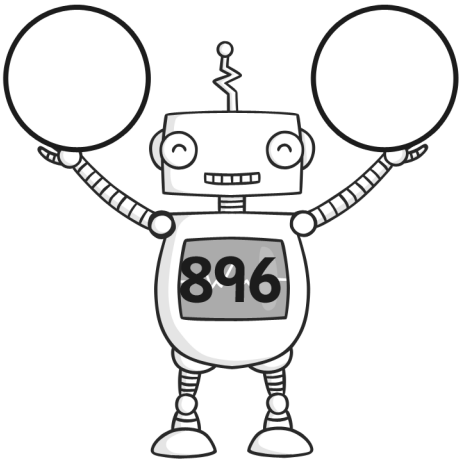


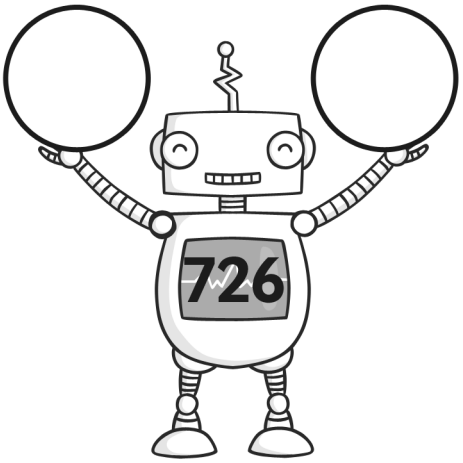


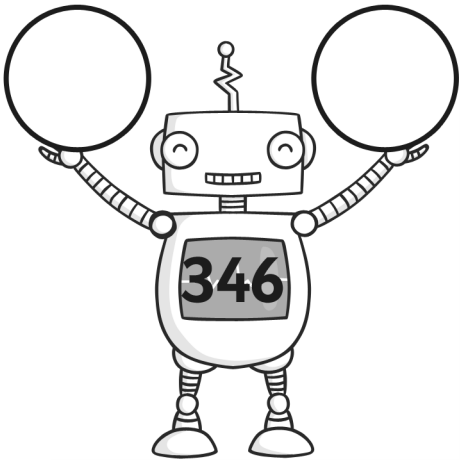




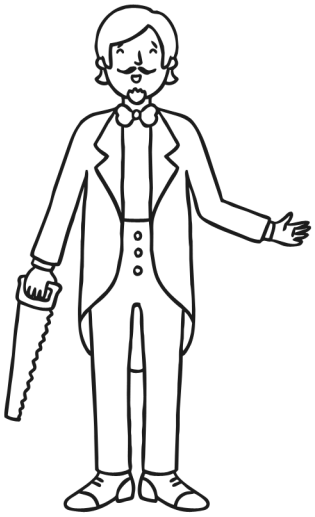








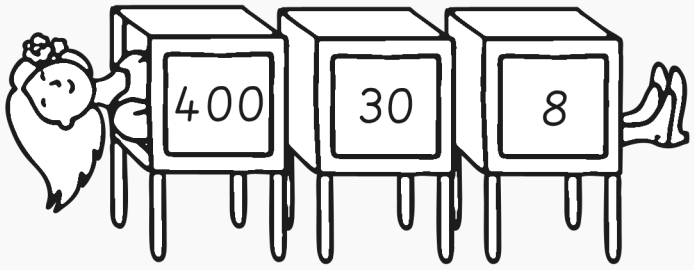
Maths Magician Partitioning Worksheet Hundreds, Tens and Units



Can you put these numbers into hundreds, tens and units?

For example:

438 =



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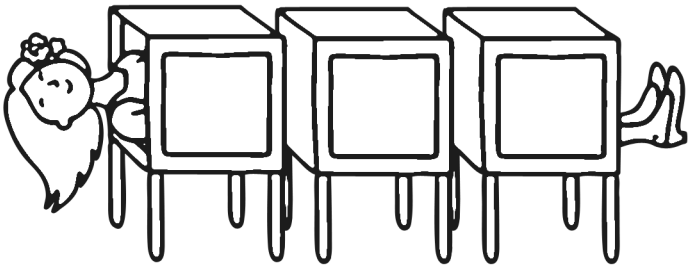

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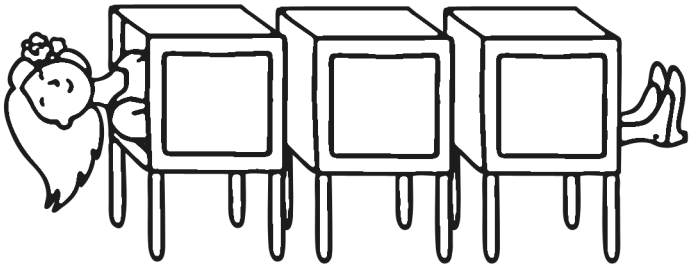

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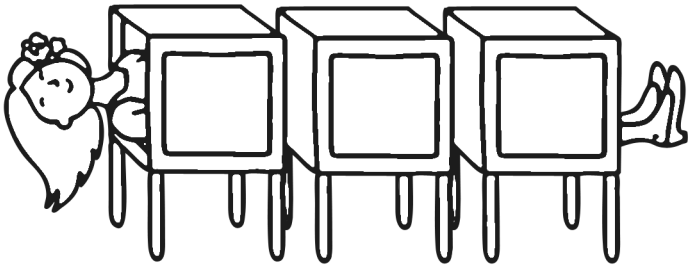

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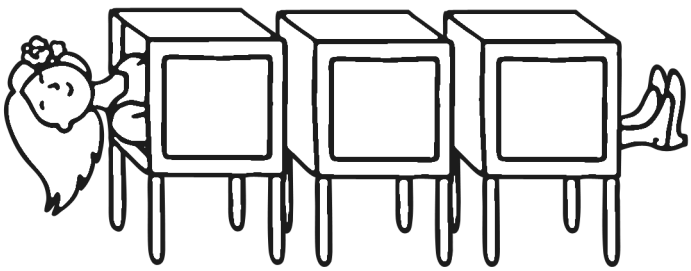

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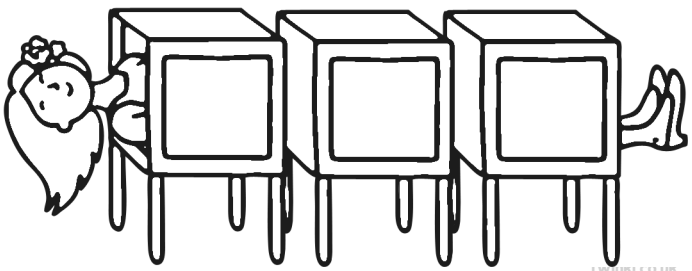
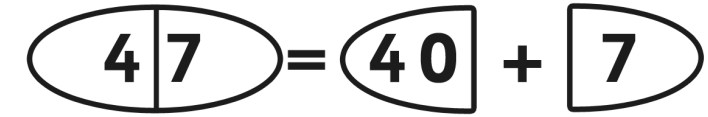
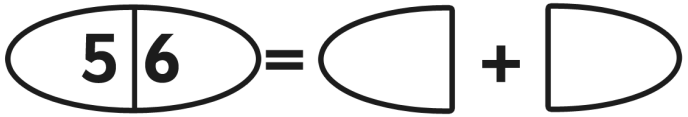
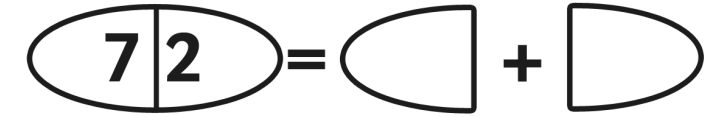
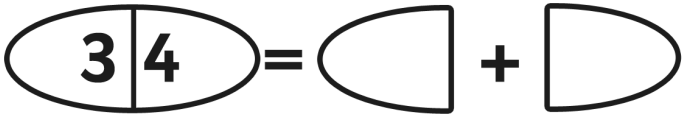


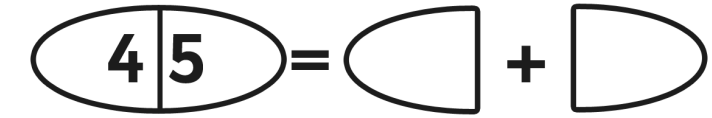
Number Partitioning Worksheet 1

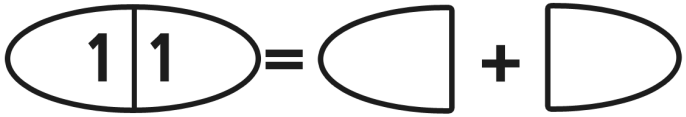


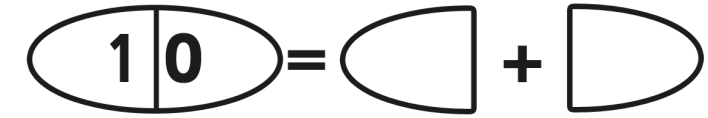


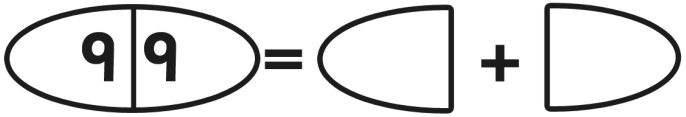




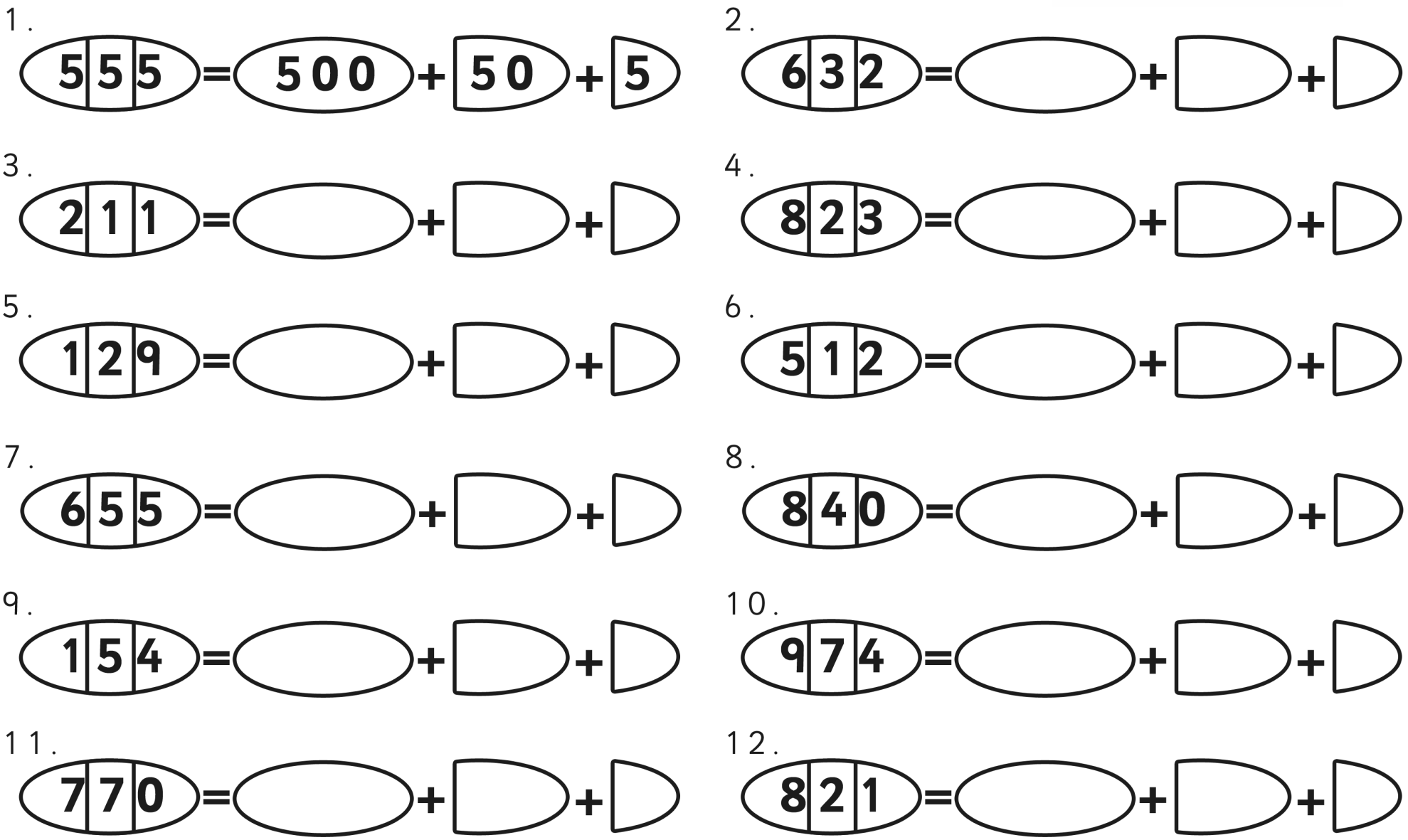




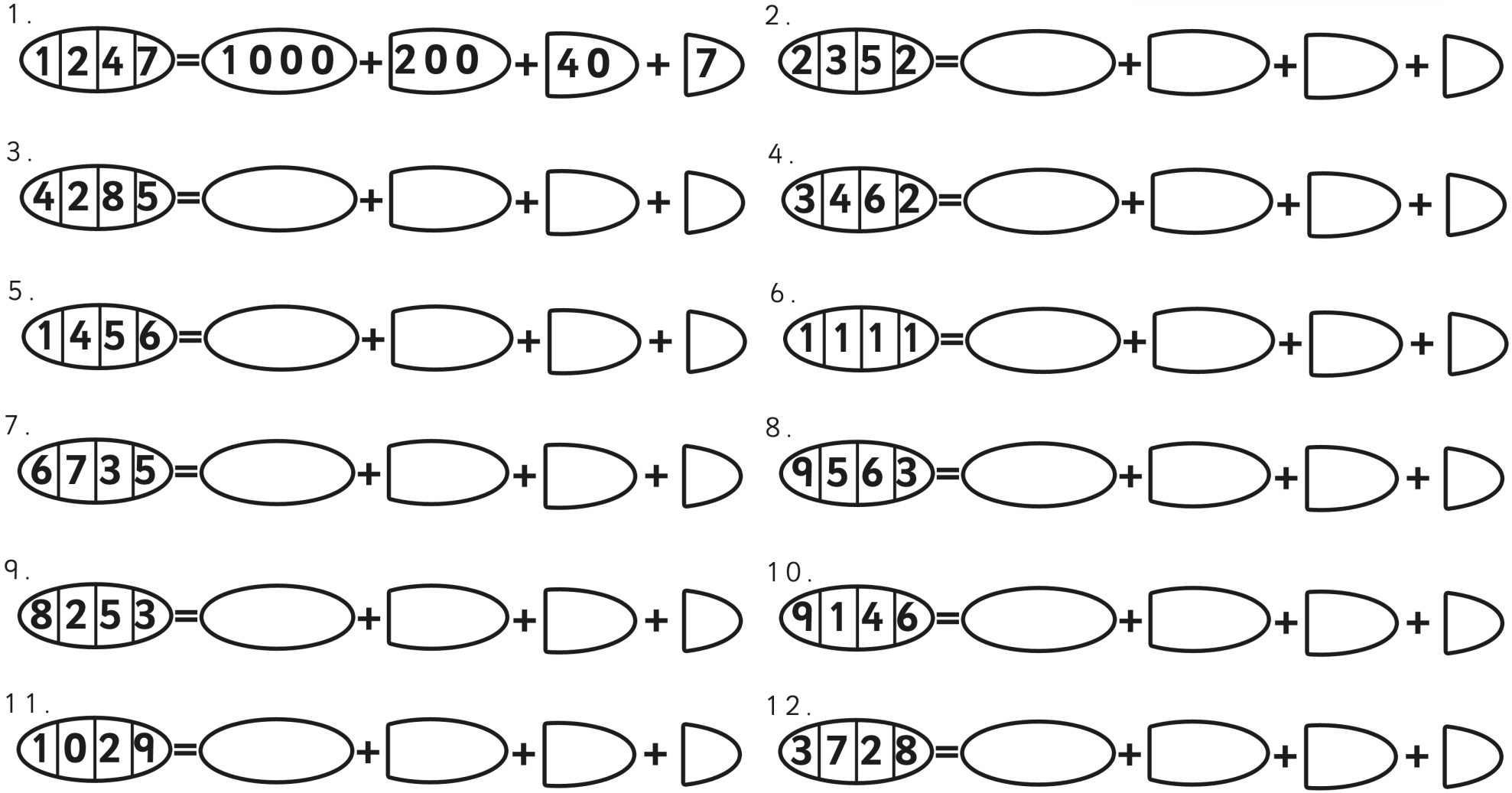




Number Partitioning Worksheet 2

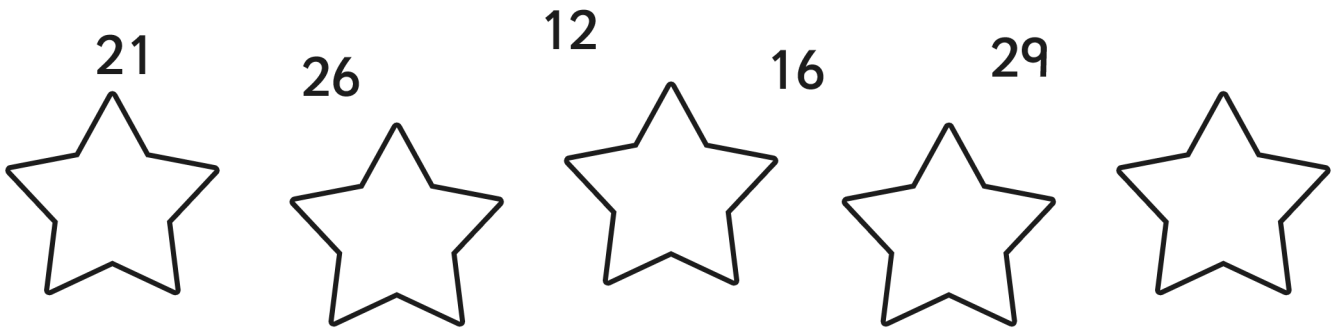


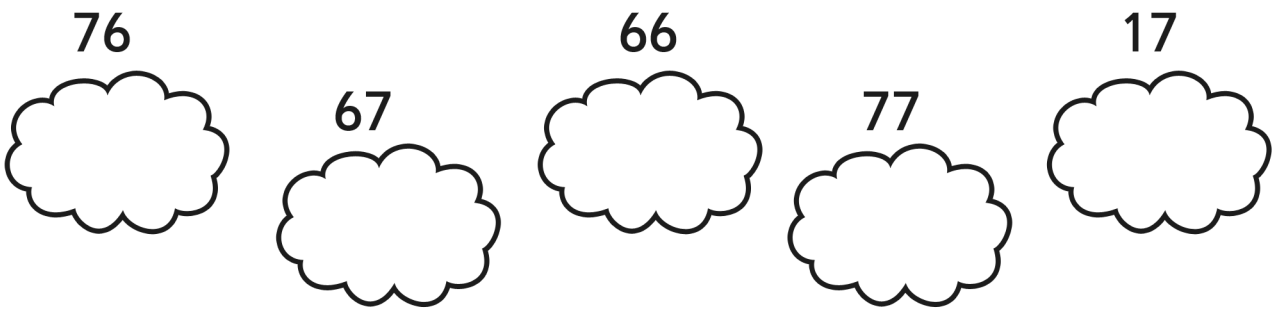
Number Partitioning Worksheet 3

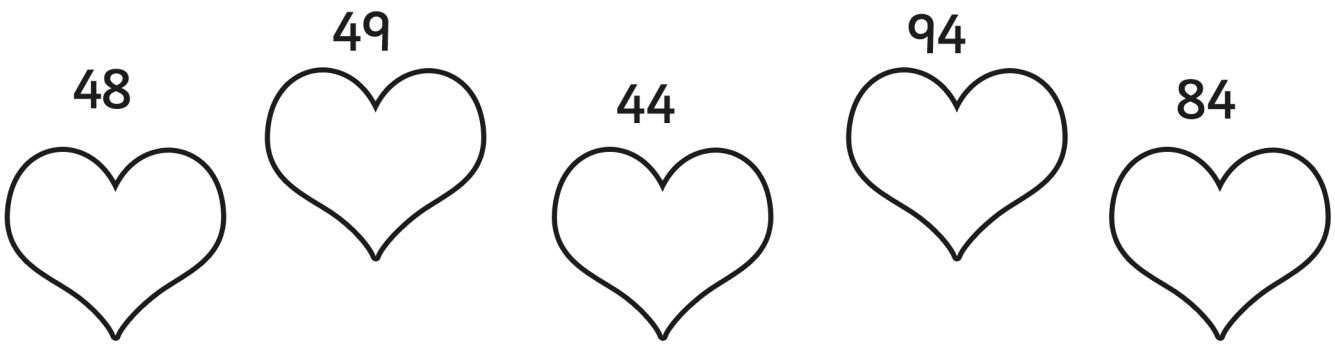


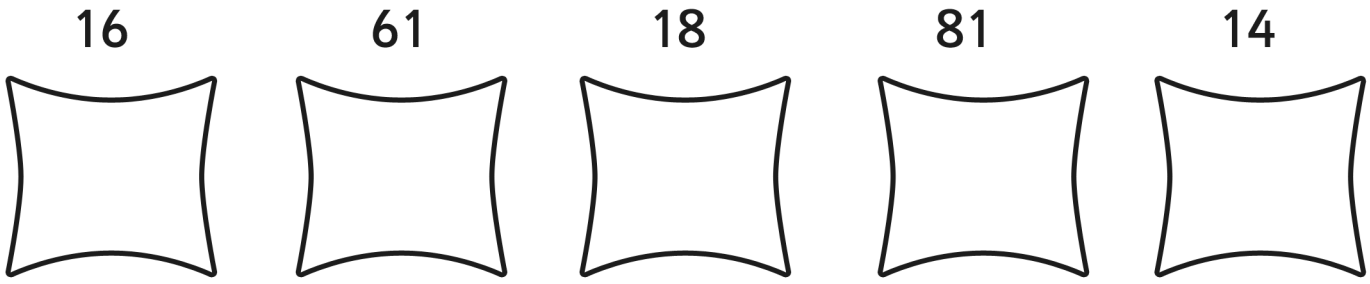
Ordering Numbers to 1000 Worksheet 1

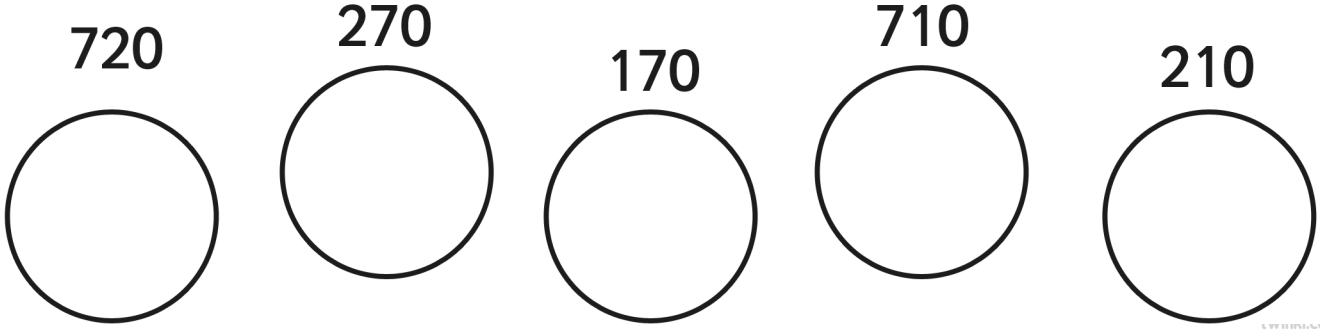
Fill in the spaces below with the numbers in order from smallest to largest.





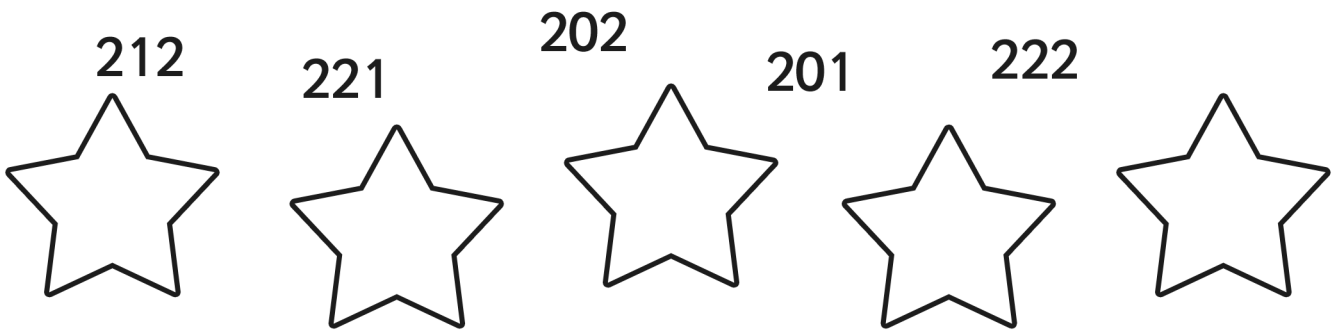


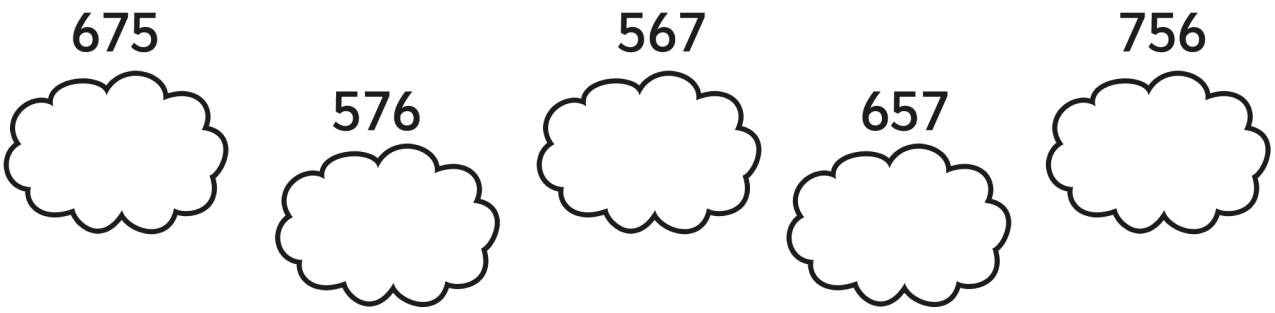


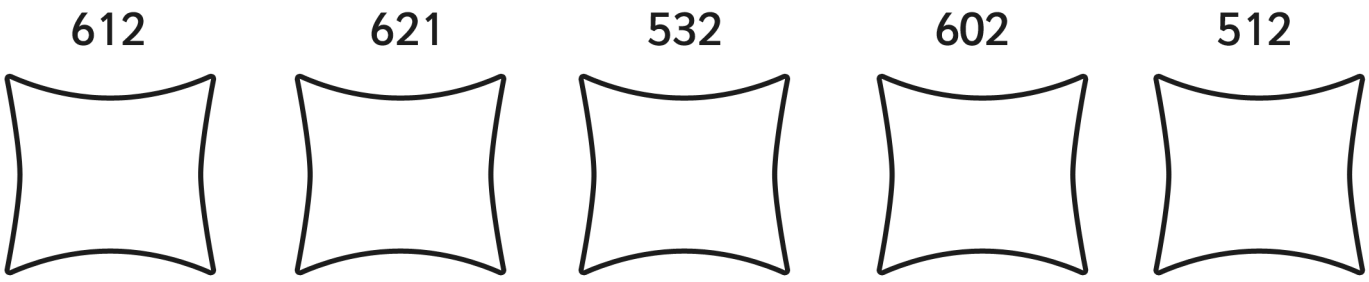


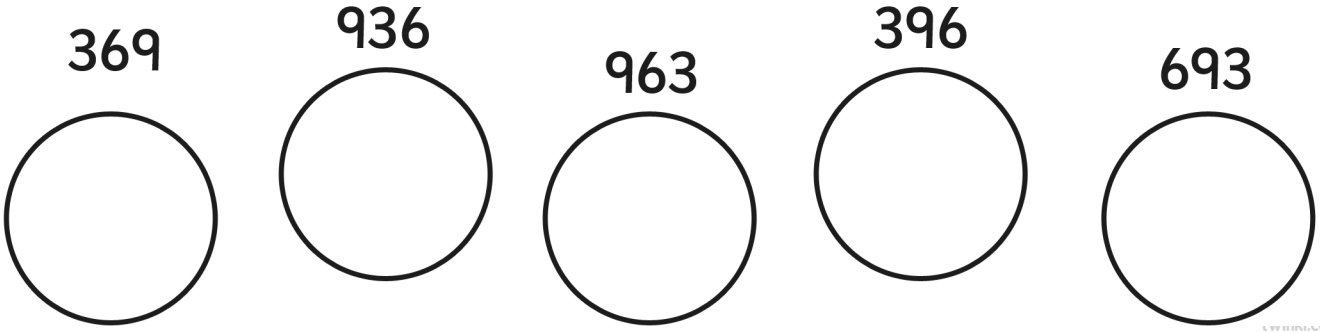
Ordering Numbers to 1000 Worksheet 2

Fill in the spaces below with the numbers in order from smallest to largest.









Estimating Addition Calculations

1. Which of these calculations give an answer of about 50?	2. Which of these calculations give an answer of about 60?	3. Which of these calculations give an answer of about 80?	4. Which of these calculations give an answer of about 100?	5. Which of these calculations give an answer of about 120?
34 + 17	37 + 23	72 + 25	87 + 26	84 + 23
13 + 45	31 + 16	47 + 31	14 + 98	46 + 76
28 + 31	17 + 53	29 + 32	82 + 17	98 + 32
45 + 18	39 + 29	35 + 27	45 + 67	53 + 56
6. Which of these calculations give an answer of about 150?	7. Which of these calculations give an answer of about 200?	8. Which of these calculations give an answer of about 300?	9. Which of these calculations give an answer of about 400?	10. Which of these calculations give an answer of about 110?
76 + 77	120 + 60	150 + 175	234 + 129	87 + 26
63 + 76	50 + 180	205 + 90	294 + 213	14 + 98
125 + 41	130 + 70	105 + 175	301 + 102	82 + 17
95 + 43	140 + 160	75 + 220	241 + 156	45 + 67
11. Which of these calculations give an answer of about 250?	12. Which of these calculations give an answer of about 350?	13. Which of these calculations give an answer of about 500?	14. Which of these calculations give an answer of about 750?	15. Which of these calculations give an answer of about 1000?
124 + 221	237 + 114	245 + 275	534 + 220	901 + 156
113 + 135	290 + 98	135 + 450	235 + 480	139 + 786
26 + 231	104 + 216	285 + 180	150 + 563	456 + 553
175 + 55	98 + 228	345 + 160	378 + 330	782 + 214

Estimating Subtraction Calculations

1. Which of these calculations give an answer of about 10?	2. Which of these calculations give an answer of about 20?	3. Which of these calculations give an answer of about 30?	4. Which of these calculations give an answer of about 40?	5. Which of these calculations give an answer of about 50?
34 - 23	45 - 18	92 - 54	77 - 26	84 - 23
65 - 45	39 - 29	31 - 12	114 - 98	124 - 76
27 - 12	37 - 16	115 - 76	87 - 46	98 - 32
98 - 77	31 - 17	76 - 47	45 - 17	53 - 11
6. Which of these calculations give an answer of about 60?	7. Which of these calculations give an answer of about 70?	8. Which of these calculations give an answer of about 80?	9. Which of these calculations give an answer of about 90?	10. Which of these calculations give an answer of about 100?
76 - 17	120 - 60	150 - 75	234 - 129	324 - 221
63 - 11	250 - 180	205 - 120	294 - 213	113 - 35
125 - 54	130 - 70	220 - 150	301 - 102	226 - 31
95 - 43	200 - 160	300 - 220	241 - 153	175 - 55
11. Which of these calculations give an answer of about 150?	12. Which of these calculations give an answer of about 200?	13. Which of these calculations give an answer of about 250?	14. Which of these calculations give an answer of about 350?	15. Which of these calculations give an answer of about 500?
237 - 114	490 - 265	345 - 98	934 - 627	934 - 427
290 - 98	431 - 239	513 - 245	513 - 135	613 - 145
404 - 216	835 - 670	268 - 31	428 - 231	728 - 231
380 - 228	496 - 267	459 - 181	465 - 112	1045 - 518

Estimating Money Calculations

1. Which of these calculations give an answer of about 20p? 11p + 17p 6p + 15p 5p + 9p 12p + 18p	2. Which of these calculations give an answer of about 30p? 17p + 16p 21p + 14p 19p + 21p 23p + 17p	3. Which of these calculations give an answer of about 40p? 22p + 25p 31p + 21p 29p + 27p 14p + 27p	4. Which of these calculations give an answer of about 50p? 27p + 26p 14p + 28p 35p + 26p 41p + 18p	5. Which of these calculations give an answer of about 25p? 8p + 23p 10p + 9p 17p + 10p 11p + 22p
6. Which of these calculations give an answer of about 75p? 7p + 70p 50p + 24p 18p + 41p 42p + 43p	7. Which of these calculations give an answer of about £1? 70p + 60p 50p + 40p 30p + 70p 20p + £1	8. Which of these calculations give an answer of about £2? £1.50 + £1.25 £1.05 + 90p £1.05 + £1.20 75p + £2.20	9. Which of these calculations give an answer of about £3? £2.34 + 29p £1.45 + £1.53 £2.01 + £1.02 £2.41 + £1.36	10. Which of these calculations give an answer of about £1.50? £1.24 + 35p £1 + 23p 76p + 72p £0.75 + £0.55
11. Which of these calculations give an answer of about £2.50? £2.17 + £1.14 90p + 98p £1.02 + £1.16 76p + £1.78	12. Which of these calculations give an answer of about £3.50? £1.90 + £1.65 £3 + 29p £1.35 + £3.00 96p + £2.67	13. Which of these calculations give an answer of about £5? £1.23 + £2.75 £1.35 + £4.40 £2.75 + £1.90 £4.45 + 60p	14. Which of these calculations give an answer of about £7.50? £3.20 + £2.30 £3.50 + £4.60 £1.50 + £6.10 £3.78 + £3.74	15. Which of these calculations give an answer of about £10? £9 + 40p £1.20 + £8.10 £3.60 + £4.50 £7 + £3.10

Representing Numbers Using Base 10

243		699	
562		840	
785		709	
391		112	
669		590	
402		519	
513		101	

Estimate on 0-1000 Number Line Worksheet

a) 459

b) 213

c) 987

d) 753

e) 289

f) 672

g) 31

h) 814

Estimate on Different Number Lines Worksheet

a) 743

b) 857

c) 387

d) 198

e) 449

f) 576

g) 610

h) 841

i) 338

Writing Numbers in Words

Write the following numbers in words:

243	Two hundred and forty-three
562	
785	
391	
669	
402	
513	
699	
840	
709	
112	
590	
519	
101	

Writing Numbers in Words

Write the following words in numbers:

Three hundred and forty-six	346
Six hundred and thirty-nine	
Nine hundred and thirteen	
Seven hundred and twenty-eight	
Four hundred and six	
Nine hundred and thirty	
One hundred and four	
Five hundred and thirty-five	
Two hundred and twenty-two	
Four hundred and sixty	
Eight hundred and seventy-eight	
Nine hundred and ninety-one	
One hundred and ninety-nine	
Five hundred and fifteen	

Writing Numbers in Words

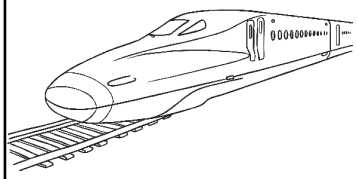
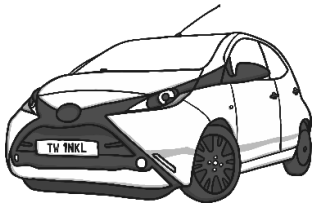
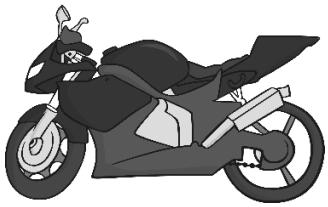
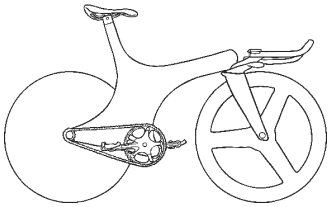
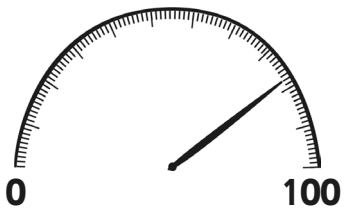
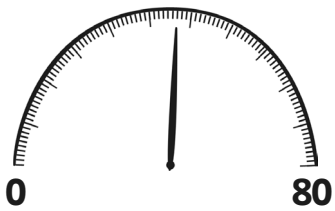
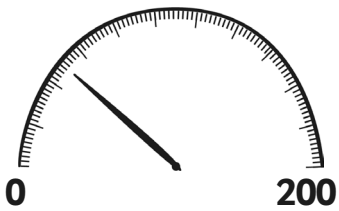
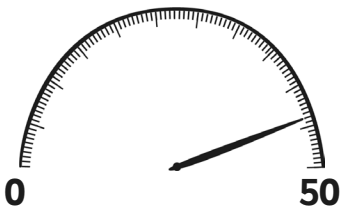
Write the following words into numbers and numbers into words.

	561
	902
Two hundred and fourteen	
Six hundred and fifty-nine	
	327
Four hundred and twelve	
Eight hundred and eight	
	880
	660
Six hundred and sixteen	
	779
Three hundred and thirty-seven	
	819
Seven hundred and forty	

Estimation – Reading Speedometers

Estimation can be useful in real life situations. Be useful and apply your estimation skills to these situations.

Look at the speed limit signs and the speedometers. Is the driver going **Too Fast!** or **Driving Safely**? The first one is done for you.

1.	2.	3.	4.
			
			
			
Estimated Speed **78** Driving Safely	**Estimated Speed**	**Estimated Speed**	**Estimated Speed**

Estimation – Reading Speedometers

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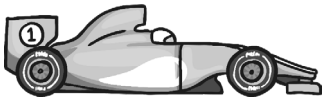
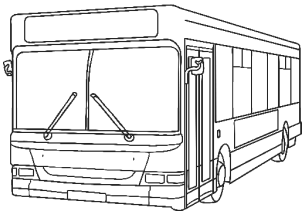
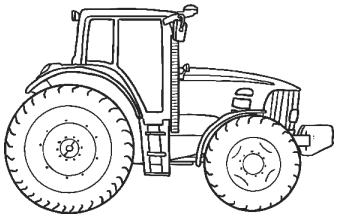
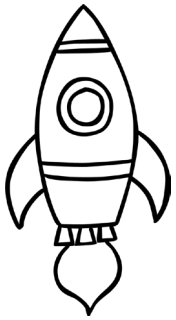
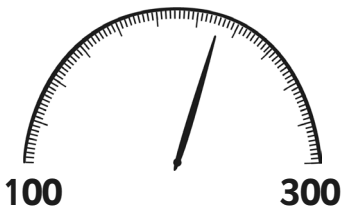
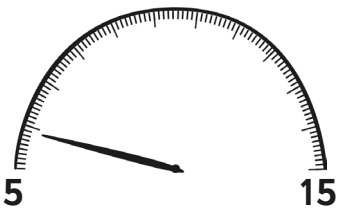
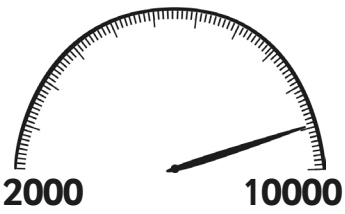
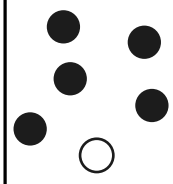
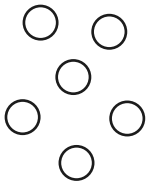
1.	2.	3.	4.
			
			
			
Estimated Speed	**Estimated Speed**	**Estimated Speed**	**Estimated Speed**

Solving Number Problems Using Number Representation

For each of the problems below, begin by representing the number in the place value chart then complete the calculation by adding or subtracting from the appropriate column.

E.g. The Jones family have 56 fish.

Represent 56 in the chart by using dots or base 10 bars.

Hundreds	Tens	Units
		

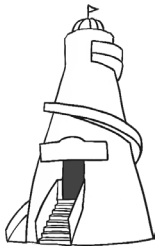
Then read the rest of the question and add or cross out the extra dots or bars needed.

They buy 10 more. How many do they have altogether?

Don't forget to make a new hundred if you have 10 dots or bars in the tens column.

1. 76 people have attended the School Summer Fayre.

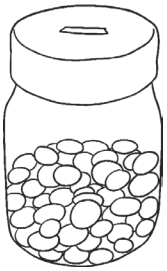
   If 10 go home, how many are left?



Hundreds	Tens	Units	Answer

2. Raj has saved £49.

   His grandmother gives him £10. How much does he have altogether?



Hundreds	Tens	Units	Answer

3. Bilal collects stamps. He has 326.

   He buys a packet of 100 with his pocket money. How many does he have now?

Hundreds	Tens	Units	Answer

Solving Number Problems Using Number Representation

4. There are 97 guinea pigs in the zoo enclosure.

   10 babies are born. How many are there altogether?

Hundreds	Tens	Units	Answer

5. Billy is playing a video game. He has scored 872 points.

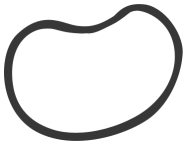
   He misses a jump and loses 100 points.

   How many does he have now?

Hundreds	Tens	Units	Answer

6. Freya collects 103 conkers.

   She gives 10 of them to a friend. How many does she have left?



Hundreds	Tens	Units	Answer

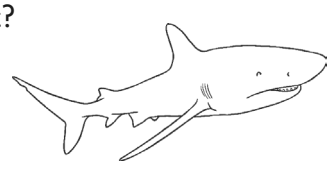
7. There are 372 children in the school.

   When a nearby school closes, 110 more children join. How many pupils are there now?

Hundreds	Tens	Units	Answer

8. A shark has 295 teeth.

   It loses 110. How many does it have left?



Hundreds	Tens	Units	Answer